

Vol 2 1881

Boon Sale Catalogues. Priced

Date	Auctioneers	Owners or Cataloguers
1881 June 22-23	Bangs & Co New York	O. A. Denison, W. E. Woodman
" 24	" " "	" "
" 28-29	Launcester	Chas. Strigernall.
" 29	Bangs & Co New York	E. Bankhead, J. W. Haseltine
" "	Wm Seemuller Baltimore	Harper, Moser, G. W. Massamore
July 27	D. J. Henry Pittsburgh	S. A. Morgan.
" 28-29	Bangs & Co New York	M. C. Seffert, S. W. Chapman
Aug 31	Wm Seemuller Baltimore	Dr Geo W. Massamore.
Sept 8	J. B. Birch & Son, Philadelphia	J. W. Haseltine.
" 9	Bangs & Co New York	Ed Grossard
Oct 6	Wm Seemuller Baltimore	Dr Geo W. Massamore.
" 10	G. A. Seavitt & Co New York	G. Blake, Scott & Co.
" 15	Bangs & Co " "	H. P. Smith
" 21-22	" " " "	Ed Grossard.
" 25	" " " "	C. J. Woolley, W. E. Woodman
" 26 to 28	" " " "	J. E. Burton, W. E. Woodman
Nov 21	Wm Seemuller Baltimore	Dr Geo W. Massamore
" 28 to 30	Bangs & Co New York	J. W. Haseltine
Dec 8	" " " "	Ed Grossard.
" 12-13	" " " "	L. Brauer, J. W. Haseltine.
" 19	G. A. Seavitt & Co " "	Scott & Co
" 22	Launcester	Chas Strigernall
" 27	Bangs & Co New York	Ed Grossard.

190



HUNTINGTON FREE LIBRARY
AND READING ROOM

THE AMERICAN NUMISMATIC SOCIETY



W. Elliot Woodward's

FORTY-FIRST SALE.

Relics ^{of} the Stone Age

AND COINS.

The Woolley Collection.

OCTOBER 25, 1881.

Pre-Historic Man.
—
CATALOGUE
OF
CHARLES F. WOOLLEY'S COLLECTION
OF
Stone Relics,
ILLUSTRATING THE
ARCHAEOLOGY
OF
EUROPE AND AMERICA.
ALSO A SMALL COLLECTION OF FINE COINS.

—
To be Sold by Auction,
By Messrs. BANGS & CO.

At their New Salesrooms,
739 & 741 Broadway, New York City,
On Tuesday, October 25th, 1881.

—
ARTICLES ON EXHIBITION AT TEN O'CLOCK IN THE MORNING OF MONDAY,
OCTOBER TWENTY-FOURTH, AND ON THE DAY OF SALE. THE SALE
WILL COMMENCE PROMPTLY AT TWO O'CLOCK IN
THE AFTERNOON.

—
Catalogue by W. Elliot Woodward,
Who will give any information required concerning the Sale.

BOSTON:
T. R. MARVIN & SON, NUMISMATIC PRINTERS.

1881.

INDEX.

Celts and Gouges,	10
Celts, Gouges and Narrow Chisels,	18
Coins,	26
Daggers, Knives and Spear Heads,	21
Discoidal Stones and Perforated Objects,	12
Grooved Axes and Hammers,	9
Grooved Axes, Celts, Gouges, etc.,	3
Miscellaneous,	8
Perforated Axes and Hammers,	22
Pestles, Hammer Stones,	4, 11
Pottery, Pipes, etc.,	24
Pre-glacial Man in New Jersey,	26
Spear Heads, Arrow Points, Knives, etc.,	5
Spear Points, Arrow Heads, Knives, etc.,	13
The Mound Builders,	24
The Stone Age in Europe,	17
The Stone Age in New Jersey,	3
The Stone Age in Ohio,	9
The Stone Age,—the Northwest Coast, etc.,	16



CATALOGUE.

THE WOOLLEY COLLECTION.

THE STONE AGE IN NEW JERSEY.

GROOVED AXES, CELTS, GOUGES, ETC.

As heretofore, I apply the general term Celt to all of those objects which are usually called Ungrooved Axes, Chisels, Wedges, Peelers, Tomahawks, Skinners, and Fleshers.

- 00 1 Grooved Axe; sandstone, very fine; Eatontown. $6\frac{1}{4} \times 6\frac{3}{4}$ in.
- 45 2 Grooved Axe, of uncommon size; edge a little broken; Middlesex Co. $9\frac{1}{2} \times 5$ in.
- 35 3 Grooved Axe; fine, but edge broken; Monmouth Co. $5 \times 3\frac{1}{2}$ in.
- 40 4 Small Grooved Axe; from Colt's Neck; fine. $4\frac{1}{4} \times 2\frac{3}{4}$ in.
- 40 5 Celt; basalt, fine; Ocean Port. $4\frac{3}{4} \times 2$ in.
- 20 6 Celt; Gloucester. $4\frac{1}{4} \times 2\frac{1}{4}$ in.
- 45 7 Celt; uncommonly fine; Monmouth Co. $3\frac{1}{2} \times 2$ in.
- 30 8 Celt; Monmouth Co. $3\frac{3}{4} \times 2$ in.
- 10 9 Rude Celt; paleolithic; Morrisville. 5×2 in.
- 5 10 Celt, with widening edge; fine, and a remarkable form; Spotswood. $3 \times 2\frac{1}{4}$ in.
- 30 11 Grooved Axe; from Colt's Neck; very pretty; edge a little chipped. $4\frac{1}{2} \times 3$ in.
- 40 12 Grooved Axe; granite; very ancient and *rare*; Monmouth Co. $5\frac{1}{4} \times 2\frac{3}{4}$ in.
- 50 13 Grooved Axe; Egg Harbor Bay; brought up with oyster tongs in 8 feet of water; head a little chipped, but very fine, and of uncommon form. $6\frac{1}{2} \times 4\frac{1}{4}$ in.

- 85 14 Grooved Axe; fine. $5\frac{1}{2} \times 3$ in.
- 225 15 Grooved Axe, Monmouth Co.; fine: weight 6 lbs.
 $7\frac{3}{4} \times 4\frac{3}{4}$ in.
- 150 16 Grooved Axe; fine; nearly square, Eatontown. $4\frac{3}{4} \times 3\frac{3}{4}$ in.
- 138 17 Grooved Axe, Spotswood; fine. $6\frac{1}{2} \times 3\frac{1}{2}$ in.
- 50 18 Small grooved Axe, Eatontown. $4 \times 2\frac{3}{4}$ in.
- 60 19 Grooved Axe, Colt's Neck, groove oblique to the edge
 $5\frac{1}{4} \times 3\frac{1}{4}$ in.
- 45 20 Long, slim, grooved Axe, Monmouth Co. $5\frac{1}{2} \times 2$ in.
- 50 21 Small grooved Axe; fine. $3\frac{3}{4} \times 2\frac{1}{2}$ in.
- 30 22 Grooved Axe, Middlesex Co. $3\frac{1}{2} \times 2\frac{3}{4}$ in.
- 45 23 Grooved Axe; good; Spotswood. $6\frac{3}{4} \times 1\frac{3}{4}$ in.
- 42 24 Grooved Axe; very good; Monmouth Co. $5\frac{1}{4} \times 2\frac{3}{4}$ in.
- 60 25 Grooved Axe, granite; Colt's Neck. $4\frac{3}{4} \times 2\frac{3}{4}$ in.
- 35 26 False Axe, Monmouth Co.; fine. $5\frac{1}{4} \times 3$ in.
- 45 27 Pretty little Celt, Tuckerton. $2\frac{3}{4} \times 1\frac{1}{2}$ in.
- 10 28 Rude Celt, Monmouth Co. $2\frac{3}{4} \times 1\frac{1}{4}$ in.
- 40 29 Celt, of Slate; evidently of great antiquity, Old Bridge.
 $3\frac{1}{2} \times 2$ in.
- 35 30 Celt, Pine Brook. $3\frac{3}{4} \times 2$ in.
- 10 31 Grooved Axes; all somewhat injured; from various localities, and of various sizes. 6 pieces.
- 30 32 Slate, Celt; very ancient; Morford. $3\frac{1}{2} \times 2\frac{1}{4}$ in.
- 150 33 Granite Gouge, Monmouth Co.: a rare implement in New Jersey. $6\frac{3}{4} \times 1\frac{3}{4}$ in.

PESTLES, HAMMER STONES, ETC.

- 25 34 Round Pestle; irregular in form: Manalapan; $9\frac{1}{2} \times 3$.
- 20 35 Pestle, Spotswood; flattened; $8\frac{1}{2} \times 2\frac{1}{2}$ in.
- 20 36 Pestle, Freehold; $7\frac{1}{2} \times 2\frac{1}{4}$ in.
- 20 37 Pestle, Spotswood; round: 8×2 in.
- 15 38 Pestle, Monmouth Co.; 8 in.
- 15 39 Pestle, Monmouth Co.; 7 in.
- 30 40 Small quartz Pestle or Muller; $2\frac{1}{2}$ in.
- 11 41 Pestles, various sizes and different localities; all good: varying in length from $2\frac{1}{2}$ to 7 in. 11 pieces.
- 30 42 Hammer Stone, Monmouth Co.: $3\frac{3}{4}$ in.
- 30 43 Hammer Stone, Spotswood; 4 in.
- 35 44 Hammer Stone, Monmouth Co.: $3\frac{1}{4}$ in.

- 10 45 Hammer Stone or Ball, Gravel Hill ; $2\frac{1}{4}$ in.
 15 46 Hammer Stone or Ball, Spotswood ; $3\frac{1}{4}$ in.
 40 47 Square Hammer Stone, Monmouth Co.; $3\frac{1}{4}$ in.
 10 48 Large Hammer Stone, Monmouth Co.; $4\frac{1}{4}$ in.
 3 49 Balls, probably water-worn pebbles ; various localities. 5 pieces.
 5 50 Large Hammer Stone, Spotswood ; irregular form ; 6 in.
 20 51 Rubbing Stone, Monmouth Co.; $9\frac{1}{2}$ x 5 in.
 10 52 Rubbing Stone, Middlesex Co.; $5\frac{1}{2}$ x $3\frac{1}{2}$ in.
 3 53 Rude Implements, Knives, &c., various localities. 13 pieces.
 10 54 Rude objects with grooves on the edges ; Freehold. 2 pcs.
 25 55 Celt, paleolithic ; rude and *rare* ; $6\frac{1}{2}$ x $3\frac{1}{4}$ in.

SPEAR HEADS, ARROW POINTS, KNIVES, ETC.

All of these smaller objects, unless otherwise mentioned, are from New Jersey ; those with the small printed labels 1, 8, 10, 30, 32, 34, 35, 44, 47, 53, 86, from Middlesex Co. ; Nos. 14, 41, 85, from Ocean Co. ; Nos. 37, 58, Burlington Co. ; and those bearing other numbers, Monmouth Co. The condition of these objects will average good ; some are very fine, some slightly blemished, and others more or less broken. This general statement is made that frequent repetition may be avoided.

- 8 56 Bifurcated Arrow Points ; *rare in N. J.* 12 pieces.
 6 57 Arrow Points ; same variety. 18 pieces.
 11 58 Broad-bladed, triangular Arrow Points ; a fine selection, *rare* form. 9 pieces.
 8 59 Arrow Points ; same variety ; fair lot. 8 pieces.
 9 60 Arrow Points ; long and narrow ; quartz, jasper, and other material ; fine lot. 17 pieces.
 7 61 Small, broad Arrow Points ; same material ; equally fine lot. 18 pieces.
 5 62 Another selection, of large size. 15 pieces.
 2 63 Arrow Points ; a great variety of form, size and material, many very fine. 50 pieces.
 2 64 Arrow Points ; a similar lot. 50 pieces.
 24 65 Arrow Points ; the same as the last ; of equally good quality. 110 pieces.
 2 66 Arrow and Spear Points ; slate, or basalt ; average length, $2\frac{1}{2}$ in. Supposed to be the most ancient of these objects. 130 pieces.

- 14-67 Barbed Arrow Heads; jasper, quartz, &c.; very fine lot.
12 pieces.
- 2-68 Arrow Points; similar lot. not quite so good. 49 pieces.
- 2³/₄-69 Notched Arrow Points; fine lot. 68 pieces.
- 2¹/₁₀-70 Similar, and equally good lot. 100 pieces.
- 2-71 Stemmed Arrow Points. 40 pieces.
- 2-72 Arrow Points; slate; stemmed, and showing marks of
great age. 100 pieces.
- 2¹/₄-73 Arrow Points; same description. 100 pieces.
- 2-74 Another lot; same quality and material. 98 pieces.
- 2-75 Slender, stemmed Arrow Points; many very long ones.
90 pieces.
- 3-76 Serrated Arrow Points. 5 pieces.
- 10-77 Serrated and bifurcated Arrow Points; fine. 6 pieces.
- 16-78 Arrow Points, Pa.; fine. 2 pieces.
- 27¹/₂-79 Arrow Points, Tenn.; fine. 2 pieces.
- 30-80 Arrow Points; striped jasper; very fine.
- 12¹/₂-81 Spear Points, Florida. 3 pieces.
- 2-82 Arrow Points, Scrapers, etc.; good lot; 49 pieces.
- 20-83 Triangular War Points; many of jasper; all very fine.
47 pieces.
- 3¹/₂-84 Triangular Arrow Heads. many War Points; good lot.
120 pieces.
- 2-85 Another lot, same description. 69 pieces.
- 3¹/₂-86 Arrow Points, mostly triangular, with curved base; good
lot. 127 pieces.
- 3-87 Arrow Points; like the last: very superior. 50 pieces.
- 7-88 Leaf-shaped Arrow Points: rare form and all very fine.
15 pieces.
- 6-89 Arrow Points; a similar lot, equally good. 12 pieces.
- 3¹/₂-90 Arrow Points; another lot, same description and quality.
15 pieces.
- 2-91 Arrow Points; mostly leaf-shaped. 50 pieces.
- 2-92 Arrow Points; similar lot. 65 pieces.
- 4-93 Leaf-shaped Scrapers, of jasper and other fine materials.
These Scrapers are nearly identical in material, form
and workmanship with those obtained from the north-
west coast; all fine. 13 pieces.
- 11-94 A similar lot, but not so uniformly fine: 24 pieces.
- 2-95 Chipped implements, by Mr. Woolley. called Stemmed
Scrapers. 22 pieces.

- 15 96 Fine shield-shaped Lance Head.
- 40 97 Leaf-shaped Knife; large, and of fine workmanship.
- 30 98 Notched Spear Head; length $6\frac{1}{4}$ in.
- 35 99 Spear Head, Colt's Neck; $5\frac{1}{4}$ in.
- 13 100 Large Spear Heads, various localities. 6 pieces.
- 5 101 Similar lot, but smaller. 11 pieces.
- 10 102 Axe-blades or Knives. 3 pieces.
- 6 103 Knives, various forms and sizes. 25 pieces.
- 5 104 Knives, same description as the last. 69 pieces.
- 60 105 Skinning Knife, half moon shape; Spotswood.
- 3 106 Arrow Points of red Shale; rare material, and variety in form. 42 pieces.
- 2 107 Arrow Points of blue and purple slate. 103 pieces.
- 5 108 Knives; a great variety in material, size, and form. 77 pieces.
- 4 109 Knives; same description as the last. 80 pieces.
- 5 110 Spear Heads; many good, and several of large size. 72 pieces.
- 175 111 Spade, Old Bridge; this and the following represent a *cache* of 460 pieces; fine; $6\frac{1}{4}$ x 3 in.
- 5 112 Spade; very good; $5\frac{3}{4}$ x $2\frac{1}{2}$ in.
- 40 113 Drill; Middlesex Co.; fine; $3\frac{1}{4}$ in.
- 30 114 Quartz Drill of unusual form; *rare*; $2\frac{1}{2}$ in.
- 7 115 A collection of drills representing most of the varieties found in the State, differing greatly in form, workmanship, and material; a desirable acquisition to any cabinet. 52 pieces.
- 30 116 Bone Awl or Needle, Monmouth Co.; very rare; length 3 in.
- 5 117 A selection of Knives, a Rubbing Stone, and various other objects. 18 pieces.
- 6 118 Arrow Points; all fine and of uncommon shape; 2 rotary. 7 pieces.
- 225 119 Arrow Point; sides parallel for nearly one-half the length; very fine. Among the tens of thousands of arrow points that I have examined, I have never seen another of this form.
- 3 120 Sinkers; various forms. 8 pieces.
- 2 121 Fragments of Pottery; very interesting, as showing most of the known styles of ornamentation prevailing among the makers of this ware. 94 pieces.
- 2 122 Fragments of Soap Stone Vessels. 4 pieces.

MISCELLANEOUS.

- 500 123 Banner Stone, Manasquan River; very fine and *rare*.
4½ x 2 in.
- 115 124 Banner Stone; perforation commenced; form ovoid.
2¾ x 1½ in.
- 10 125 Banner Stones; fragmentary; one originally very fine
indeed. 6 pieces.
- 3 126 Portions of Pipe Bowls and Stems. 10 pieces.
- 30 127 Flint Knife, Cavern Dordogne, France; this piece and the
three following are assigned to an antiquity of 100,000
years. 4¾ x 1¾ in.
- 20 128 Flint Knife, Dordogne, France; 3 x 1 in.
- 25 129 Flint Scraper, Dordogne, France; 2 x 1½ in.
- 15 130 Flint Knife, Dordogne, France; 1¾ x 7⁄8 in.
- 7 131 Cache, Spotswood; comprising one flat, oval stone and
13 spear-heads. 14 pieces.
- 1 132 Cache, Middlesex Co. 6 pieces.
- 40 133 Broad Arrow of most remarkable form, Allaire; 2 in.
broad, 1½ in. long.
- 14 134 Cache, Middlesex Co.; comprising 10 Arrow Points
and a curious lead implement. 11 pieces.
- 1 135 Cache; five very ancient and curious shell implements;
some of spiral form.
- 8 136 Cache, Monmouth Co.; comprising 14 beautiful War
Points of uncommon symmetry and finish.
- 3 137 Cache; five small implements and part of a squirrel's
jaw. 6 pieces.
- 175 138 Human face carved in steatite; Red Bank.
- 6 139 One long bead, 1 spindle whorl, 1 brass arrow point,
1 brass ring, 2 perforated objects, a small chisel, a por-
tion of a copper kettle; all from Indian graves. 11
pieces.
- 112 140 Beautiful Arrow Point of obsidian; New Mexico.
- 10 141 Large bone implement from Spotswood; a bear's tooth
and another curious bone object; all from Indian
graves. 3 pieces.
- 1 142 Shell Beads, 3 varieties, San Miguel Island, Cal. 61
pieces.
- 1 143 Banner Stones and Gorgets, fragments, etc. 5 pieces.
- 11 144 Very old English Pipe.

THE STONE AGE IN OHIO.

Unless otherwise mentioned, all of the objects from this state were found in Richland and surrounding counties, all within thirty miles of Mansfield, which is in the centre of the county.

GROOVED AXES AND HAMMERS.

- 145 Grooved Axe of dark stone, broad groove near the head, one side slightly concave; very fine. $5\frac{1}{2} \times 2\frac{1}{2}$ in.
- 146 Grooved Axe; dark granite, deep groove, large ridge above and below, chipped. $6\frac{1}{2} \times 3\frac{3}{4}$ in.
- 147 Grooved Axe of light stone; fine. $4\frac{3}{4} \times 3\frac{3}{4}$ in.
- 148 Grooved Axe of light blue stone, polished, one edge flattened; remarkably fine. $6\frac{1}{2} \times 2\frac{3}{4}$ in.
- 149 Small grooved Axe; fine. $4 \times 2\frac{1}{2}$ in.
- 150 Grooved Axe; edge approaching a point. $4\frac{1}{4} \times 3\frac{3}{4}$ in.
- 151 Grooved Axe; granite. $4\frac{3}{4} \times 2\frac{1}{2}$ in.
- 152 Grooved Axe; side flattened; very fine. $5\frac{1}{2} \times 3$ in.
- 153 Grooved Axe; groove very shallow; a *rare* example; fine; $7 \times 3\frac{1}{2}$ in.
- 154 Grooved Axe; head narrow; edge brought nearly to a point; fine; $6\frac{1}{2} \times 3\frac{1}{2}$ in.
- 155 Grooved Axe; fine; $3\frac{1}{2} \times 2\frac{1}{2}$ in.
- 156 Grooved Axe; substance very heavy, evidently ferruginous; very fine; $6 \times 2\frac{3}{4}$ in.
- 157 Grooved Axe; head broad and thick; deep groove with projection below; edge much narrowed; fine and remarkable for its great size and weight; 8 lbs; $8\frac{1}{2} \times 5\frac{1}{4}$ in.
- 158 Grooved Axe; fine, edge rounded; $6\frac{1}{4} \times 3\frac{1}{4}$ in.
- 159 Grooved Axe; groove very broad; light colored granite; $5\frac{3}{4} \times 3\frac{1}{4}$ in.
- 160 Grooved Axe; groove near the head; very fine; $4\frac{1}{4} \times 2\frac{1}{4}$ in.
- 161 Grooved Axe of uncommon form; fine; $4\frac{1}{4} \times 2\frac{1}{2}$ in.
- 162 Grooved Axe; good; $3\frac{1}{4} \times 2\frac{1}{2}$ in.
- 163 Grooved Axe; good; $4\frac{3}{4} \times 2\frac{1}{2}$ in.
- 164 Grooved Axe, showing secondary use as a hammer; very fine. $3\frac{1}{2} \times 2\frac{1}{4}$ in.
- 165 Grooved hammer; one edge concave for tightening with a wedge; fine; *rare*; $3\frac{1}{4} \times 2\frac{1}{2}$ in.
- 166 Grooved Hammer; fine; $3 \times 2\frac{1}{4}$ in.

- 225 167 Grooved Hammer of remarkable form, being somewhat pipe shaped; I have never before met with a similar example; very fine. $2\frac{3}{4} \times 2\frac{1}{4}$ in.
- 132 168 Grooved Hammer; symmetrical; one edge flattened; very fine and *rare*. $3\frac{1}{2} \times 2\frac{1}{2}$ in.
- 150 169 Grooved Hammer; symmetrical groove, polished, edge flattened; even finer than the last; *rare*. $3 \times 2\frac{1}{4}$ in.
- 80 170 Grooved Hammer; groove near one end; fine, *rare*. $2\frac{1}{2} \times 2\frac{1}{4}$ in.
- 25 171 Grooved Hammer; an uncommon form, the longest diameter being across the face. $2\frac{1}{4} \times 1\frac{3}{4}$ in.
- 25 172 Grooved Axe, Gallia Co., O.; fine. $5\frac{1}{2} \times 3$ in.
- 75 173 Grooved Axe, Gallia Co.; remarkably narrow for its length; fine. $4\frac{1}{2} \times 2$ in.

CELTS AND GOUGES.

- 10 174 Celt; of light stone, polished edge, head chipped. $4 \times 2\frac{1}{2}$ in.
- 40 175 Celt; broad edge, narrowing towards the top; fine. $4\frac{3}{4} \times 2\frac{1}{2}$ in.
- 40 176 Celt; dark stone; fine. $5\frac{1}{2} \times 2\frac{1}{2}$ in.
- 30 177 Celt; finely finished, edge a little chipped. $6\frac{1}{4} \times 2\frac{1}{4}$ in.
- 45 178 Celt; of dark granite; very fine. $6\frac{1}{4} \times 2\frac{1}{4}$ in.
- 40 179 Celt; light colored granite, finely finished and perfect. 4×2 in.
- 25 180 Celt; fine. $4\frac{1}{4} \times 2$ in.
- 10 181 Celt; slate, of rude work. $5\frac{1}{2} \times 2\frac{1}{2}$ in.
- 50 182 Celt; granite; very old, and of great size. $9 \times 3\frac{1}{4}$ in.
- 30 183 Celt; thin, and nicely finished. $3\frac{1}{4} \times 2$ in.
- 35 184 Celt; of light gray stone, finely finished and perfect. $6 \times 2\frac{1}{2}$ in.
- 25 185 Small Celt; fine. $2\frac{3}{4} \times 1\frac{1}{4}$ in.
- 30 186 Celt; very good. $5\frac{1}{4} \times 2$ in.
- 10 187 Celt; edge broken. $5\frac{1}{4} \times 2\frac{1}{2}$.
- 55 188 Celt; very uncommon form; its diameter nearly the same throughout its whole length; very fine. $6\frac{3}{4} \times 2\frac{1}{4}$.
- 50 189 Celt; approaching gouge form; very fine. $7 \times 2\frac{3}{4}$.
- 60 190 Celt; dark granite; handsome, regular form; fine. $7 \times 3\frac{1}{4}$.
- 90 191 Celt, of quartzite: gray, mottled with red, highly polished in all its parts, and a most unusual example; unfortunately the top is broken and the edge badly chipped. 7×3 in.

- 192 Celt; fine. $4\frac{3}{4} \times 2$ in.
- 193 Celt; fine, edge rounded. $6\frac{3}{4} \times 2\frac{1}{2}$ in.
- 194 Celt, of large size; the upper portion polished, the lower showing over three-quarters of its surface secondary pecking; very fine, and a remarkable specimen. 7×3 .
- 195 Part of an immense Celt; from Ironton, O. When perfect, probably not less than 13 inches long; this fragment, comprising the cutting end, is $7\frac{1}{2} \times 4$.
- 196 Celt, Gallia Co. $4 \times 2\frac{1}{2}$ in.
- 197 Celt; fine. $4\frac{3}{4} \times 2$ in.
- 198 Celt; good. $3\frac{1}{4} \times 2$ in.
- 199 Celt; very good. $4\frac{3}{4} \times 2\frac{3}{4}$ in.
- 200 Celt; dark granite, top nearly pointed; very fine. $5 \times 2\frac{1}{4}$ in.
- 201 Celt; broad, with square sides; fine. $4\frac{1}{2} \times 2\frac{1}{2}$ in.
- 202 Celt, Gallia Co.; fine. $3\frac{1}{2} \times 2\frac{1}{2}$ in.
- 203 Celt; very good. $3 \times 2\frac{1}{4}$ in.
- 204 Celt; Adze form; fine. $6\frac{1}{4} \times 2$ in.
- 205 Gouge; granite, top nearly pointed; though somewhat common in New England and at the east, in Ohio and other western states the gouge is one of the rarest of implements. $3\frac{3}{4} \times 2$ in.
- 206 Celt; fine. $3\frac{3}{4} \times 1\frac{3}{4}$ in.
- 207 Celt; polished and finely finished. $4\frac{3}{4} \times 1\frac{3}{4}$ in.
- 208 Celt, Jackson Co., W. Virginia.; fine. $3\frac{1}{2} \times 1\frac{3}{4}$ in.
- 209 Celt, Mason Co., W. Virginia. $3\frac{3}{4} \times 2$ in.
- 210 Celt, Jackson Co., W. Virginia. $4 \times 2\frac{1}{4}$ in.
- 211 Celt-formed implement of slate. $5\frac{1}{4} \times 2\frac{1}{2}$ in.
- 212 Broad Gouge; fine, *rare*. $6 \times 2\frac{1}{2}$ in.
- 213 Flint Celt, chipped, from Tennessee; fine, *rare*. $6\frac{1}{2} \times 1\frac{1}{2}$ in.
- 214 Celt of chert, chipped and partly polished, from Madison's Mill, Kentucky; *rare*. $6\frac{1}{2} \times 2$ in.
- 215 Celt-shaped object, of granite, convex on one side, flat on the other. $7\frac{1}{2} \times 3$ in.

PESTLES AND HAMMER STONES.

- 216 Long, round Pestle; very fine. $10 \times 2\frac{1}{4}$ in.
- 217 Long, round Pestle; fine and symmetrical. 14×3 .
- 218 Long Pestle; broken. 7×3 in.
- 219 Long Pestle; found near Cincinnati; fine. $14 \times 2\frac{1}{4}$.
- 220 Long Pestle; Mich. $7 \times 2\frac{3}{4}$.

- 20c 221 Flat-head Pestle. In the centre of the head of this pestle and the next one, and in many others which I have examined, is a polished, deep depression, evidently the result of use; it could not have been formed by pounding or grinding maize, and I think it may well be doubted that these objects had anything to do with the preparation of corn for food. They are only found in those sections of the country where nuts with hard shells abound, and it seems not unlikely that they were specially used for cracking nuts, when perfect, and that their use as corn crushers, if they were so used, was secondary; in perfect condition they are seldom found; most of the examples known show long-continued and hard usage. Unusually fine; height, $4\frac{1}{2}$ in., diameter of head, $3\frac{1}{4}$ in.
- 7c 222 Flat Pestle; the edge of the head broken; in other respects, fine; $5\frac{1}{2} \times 3\frac{1}{4}$ in.
- 15c 223 Flat head Pestle; in the secondary condition referred to. $4 \times 2\frac{1}{2}$ in.
- 105c 224 Square Hammer Stone with depressions on four sides; a *rare* form; $3\frac{3}{4} \times 3 \times 2\frac{1}{2}$ in.
- 10c 225 Flat Hammer Stone; fine; diameter 4 in.
- 10c 226 Balls or Hammer Stones. 3 pieces.
- 10c 227 Hammer Stone; diameter 3 in.
- 40c 228 Grooved Hammer; a small and pretty implement; $1\frac{3}{4} \times 1\frac{3}{4}$ in.

DISCOIDAL STONES AND PERFORATED OBJECTS.

- 510c 229 Discoidal Stone, Pulaski Co., Ky.; deeply concavity on both sides; quartz; rare material for a rare object; diameter $2\frac{1}{4}$ in.
- 150c 230 Discoidal Stone; very fine; rare; diameter $2\frac{3}{4}$ in., thickness 1 in.
- 32c 231 Discoidal Stone; both sides concave; Grayson Co., Ky.; fine, rare; diameter 2 in.
- 125c 232 Discoidal Stone, Greenup Co., Ky.; thick, with deep concavity; diameter 2 in., thickness $1\frac{1}{4}$ in.
- 100c 233 Discoidal Stone; convex, fine, polished. $2\frac{1}{2} \times 1$.
- 225c 234 Discoidal Stone, Lewis Co., Ky.; concavity commenced on one side; granite, symmetrical and very fine. $1\frac{3}{4} \times 1$ in.

- 235 Slung Shot; an ovoid stone with two perforations meeting each other at an angle, at the smaller end; with the addition of a string, makes a most efficient slung shot; (the only object of this kind that I have ever seen); longer diameter, $1\frac{3}{4}$, shorter, $1\frac{1}{4}$ in.
- 236 A tube commenced; a stone blocked out and rounded, with perforation at one end; $1\frac{1}{2}$ in. deep; length 5 in; diameter 3 in.
- 237 Another tube commenced; wrought to a symmetrical form, with perforation at the end, 1 in. in depth; this object plainly shows pecking over the entire surface, and is very fine; length $9\frac{1}{4}$ in., diameter, $3\frac{1}{2}$ in.
- 238 Gorget, Hidden Run, Clinton Co., Ohio; striped slate; $3 \times 1\frac{1}{4}$ in.
- 239 Gorget of large size; elliptical in form, originally; $7\frac{1}{2}$ in. long and very fine; imperfect at one end.
- 240 Gorget; striped slate; unusual form; one half only; $3\frac{3}{4} \times 2\frac{1}{2}$ in.
- 241 Gorget; hour-glass form: Columbia, S. C.; very fine; $4\frac{1}{2} \times 2$ in.
- 242 Banner Stone; crescent-shape, perforation $\frac{1}{2}$ in; fine; *very rare*; $5\frac{1}{4} \times 1\frac{1}{2}$ in.
- 243 Banner Stone, Lancaster Co., Pa.; very fine. $3\frac{1}{8} \times 1\frac{3}{4}$ in.
- 244 Banner Stone, from N. H.; unusual form; that of a double-bladed axe; fine, and *rare*. $1\frac{1}{2} \times 3\frac{1}{2}$ in.
- 245 Banner Stone; half-moon shape; *fine, rare*. $3\frac{3}{4} \times 1\frac{3}{4}$ in.
- 246 Bird-shaped Amulet; broken; the head and half the body perfect; *very rare*. $3 \times 1\frac{3}{4}$ in.

SPEAR-POINTS, ARROW-HEADS, KNIVES, ETC.

- 247 Javelin Point. $5 \times 1\frac{1}{2}$ in.
- 248 Spear Head; notched. $4 \times 1\frac{1}{4}$ in.
- 249 Spear Head; broad, serrated; perfect. $3\frac{1}{4} \times 1\frac{1}{2}$ in.
- 250 Spear Head; notched; elliptical, fine. $3\frac{1}{2} \times 1\frac{1}{2}$ in.
- 251 Spear Head; barbed, triangular, double tongued, beveled, serrated; *a rare form*. $2\frac{1}{2} \times 1\frac{1}{2}$ in.
- 252 Spear Head; notched; thick, irregular. $4 \times 1\frac{3}{4}$ in.
- 253 Spear Head, or Knife; curved. $4\frac{1}{2} \times 2\frac{1}{4}$ in.
- 254 Spear Head; leaf-shaped, fine. $4 \times 1\frac{1}{2}$ in.
- 255 Spear Head; barbed, broad stem; chalcedony; fine. $3 \times 1\frac{1}{2}$ in.

- 30 256 Spear Head. $4 \times 1\frac{1}{2}$ in.
 50 257 Spear Head; rotary. $3\frac{1}{2} \times 1\frac{1}{2}$ in.
 20 258 Spear Head. $3\frac{1}{2} \times 2$ in.
 20 259 Spear Head; elliptical, end truncated. $3\frac{1}{2} \times 1\frac{1}{4}$ in.
 110 260 Spear Head; beveled, serrated, barbed. $2\frac{1}{4} \times 2$ in.
 90 261 Spear Head; leaf-shaped, thin; finely wrought. $3\frac{1}{2} \times 1\frac{3}{4}$.
 30 262 Spear Head; notched. $3\frac{1}{2} \times 1\frac{1}{2}$ in.
 30 263 Spear Heads; leaf-shaped, all very fine; average length. 3 inches. 3 pieces.
 25 264 Spear Head; barbed. $2\frac{3}{4} \times 1\frac{3}{4}$ in.
 30 265 Spear Head; stemmed. $3 \times 1\frac{1}{2}$ in.
 140 266 Spear Head; broad in the middle, notched; *rare form*, fine. $4\frac{3}{4} \times 2$ in.
 225 267 Spear Head; bluish quartzite; *rare form*, and fine. $4\frac{3}{4} \times 2$ in.
 80 268 Spear Head; fine. $5\frac{3}{4} \times 1\frac{3}{4}$ in.
 125 269 Spear head; approaches the ordinary European form; fine. $1\frac{1}{8} \times 4\frac{1}{2}$ in.
 25 270 Spear Head; point broken, but very fine. $4 \times 1\frac{5}{8}$ in.
 162 271 Spear Head, of agate; fine, and very beautifully marked. $2\frac{1}{2} \times 1\frac{1}{2}$ in.
 70 272 Spear Head; bluish stone, marked with red. $4\frac{1}{4} \times 1\frac{1}{4}$ in.
 100 273 Broad, handsome Spear Head; the end broad, but sharp, bunt form. $2\frac{1}{4} \times 3$ in.
 25 274 Spear Head; triangular, war-point form. $3\frac{1}{4} \times 2\frac{1}{4}$ in.
 30 275 Spear Point; rotary; fine form and finish. $3\frac{1}{2} \times 1\frac{1}{2}$ in.
 60 276 Spear Head; feldspar; very fine. $3\frac{3}{4} \times 1\frac{1}{4}$ in.
 25 277 Spear Head; fine. $3 \times 1\frac{1}{4}$ in.
 25 278 Spear Head; sides nearly parallel, unusual form. 4×1 in.
 30 279 Spear Head; quartzite; fine. $3 \times 1\frac{1}{4}$ in.
 150 280 Spear Head; yellow quartz, translucent; shield shape, and very pretty; $2\frac{1}{2} \times 1\frac{1}{4}$ in.
 30 281 Spear Head; barbed; very fine. $3 \times 1\frac{1}{2}$ in.
 270 282 Spear Head; beveled, serrated, rotary; *rare form*. $2\frac{1}{2} \times 1$.
 60 283 Spear Head; broad base; very fine. $3 \times 1\frac{1}{2}$ in.
 100 284 Spear Head; triangular, thick. $3\frac{3}{4} \times 1\frac{1}{2}$ in.
 213 285 Spear Head; fine. $4\frac{3}{4} \times 1\frac{7}{8}$ in.
 35 286 Spear Head; fine. $3\frac{1}{2} \times 1\frac{3}{8}$ in.
 15 287 Arrow Points; shield form, large size. 5 pieces.
 15 288 Arrow Points; large; fine lot. 6 pieces.
 20 289 Spear Points; one very fine. 2 pieces.

- 290 Spear Points; one curved; fine. $3\frac{1}{2}$ in. 2 pieces.
- 291 Spear Point; beveled, serrated, barbed; fine; *rare form*.
- 292 Arrow Points; smoky quartzite; shield-shaped. 11 pcs.
- 293 A lot; smaller size, fine material. 12 pieces.
- 294 Spear Heads; large size. 6 pieces.
- 295 Arrow Points; large, shield form, very fine lot. 6 pcs.
- 296 Minute Arrow Point; dark chert; perfect, *rare*.
- 297 Shark-tooth Arrow Point; *rare form*; length, $1\frac{5}{8}$ in.
- 298 Spear Point, with curious double notch; very fine, a form that I have never seen duplicated. $2\frac{3}{4} \times 1\frac{1}{8}$ in.
- 299 Spear Points; good lot, average 3 in. 6 pieces.
- 300 Spear Points; average about $3\frac{1}{2}$ in.; fine lot. 12 pcs.
- 301 Spear Head; leaf shape, *rare form*; average 3 in. 6 pcs.
- 302 Spear Heads; knife form, large size, good lot. 9 pcs.
- 303 Arrow Points; medium size, good lot. 22 pieces.
- 304 War Point; triangular, very fine.
- 305 Spear and Arrow Points; some broken. 9 pieces.
- 306 Arrow Points; mostly large, a good lot. 26 pieces.
- 307 Arrow and Spear Points; large; good lot. 14 pieces.
- 308 Arrow and Spear Points; good lot. 11 pieces.
- 309 Arrow and Spear Points; shield-shape, bifurcated stem; rare variety, fine lot. 14 pieces.
- 310 Arrow Points; black chert; fine. 6 pieces.
- 311 Spear Points; various forms and sizes. 9 pieces.
- 312 Spear Point; beveled, very fine, scarce. $2\frac{1}{2} \times 1\frac{1}{4}$ in.
- 313 Arrow and Spear Points; fair lot. 48 pieces.
- 314 Arrow Points, with stems; large size; very fine. 12 pieces.
- 315 Arrow Points, notched; large size; fine lot. 14 pieces.
- 316 Spear points; different forms; fine. 3 pieces.
- 317 Arrow Points, barbed; fine selection. 16 pieces.
- 318 Arrow and Spear Points, notched and barbed; various forms. 20 pieces.
- 319 Arrow Points, stems bifurcated; *rare form*. 4 pieces.
- 320 War Points, triangular; fine, *rare*. 9 pieces.
- 321 Arrow Points; small size; fine. 9 pieces.
- 322 Arrow Points, serrated; fine, *rare*. 7 pieces.
- 323 Arrow Points, selected; mostly fine. 25 pieces.
- 324 Another selection; mostly fine; showing great variety in form and material. 50 pieces.

- 2¹/₄ 325 Arrow Points ; showing most of the varieties of form and material ; many slightly broken ; a fair lot. 100 pcs.
 1³/₄ 326 Another selection like the last. 100 pieces.
 1 327 Arrow Points ; similar selection. 77 pieces.

THE STONE AGE.---THE NORTHWEST COAST, ETC.

The 19 lots of arrow points following are all from the Northwest coast, are distinguished for their minute size, and for their beauty in workmanship, form and material ; they are eagerly sought for and much used for jewelry ; exceptionally fine specimens are occasionally sold at the locations where found for several dollars each ; these are mostly in good condition though some have slight imperfections. Some are but $\frac{3}{8}$ of an inch in length, and very few exceed 1 inch.

- 3⁵/₈ 328 Arrow Points ; obsidian. 13 pieces.
 2¹/₄ 329 Arrow Points ; chalcedony. 7 pieces.
 1⁸/₈ 330 Arrow Points ; agate. 7 pieces.
 1⁶/₈ 331 Arrow Points ; broader than long, an unusual form. 11 pieces.
 1⁴/₄ 332 Arrow Points ; minute in size ; average length $\frac{1}{2}$ in.; very fine. 19 pieces.
 2⁵/₈ 333 Arrow Point ; dagger form ; very fine, *rare*.
 3²/₈ 334 Arrow Points ; red jasper ; fine. 10 pieces.
 4⁵/₈ 335 Arrow Points ; yellow jasper ; fine, *rare*. 2 pieces.
 1⁶/₈ 336 War Points ; fine. 10 pieces.
 1⁵/₈ 337 Arrow Points, slender ; mostly jasper. 11 pieces.
 1²/₈ 338 Arrow Points, barbed ; minute. 12 pieces.
 1⁵/₈ 339 Arrow Points ; yellow jasper ; fine. 5 pieces.
 3⁰/₈ 340 Arrow Points, serrated ; *rare*. 3 pieces.
 5⁵/₈ 341 Arrow Points, curved and serrated ; *very rare form*. 3 pieces.
 1⁷/₈ 342 Arrow Points ; orange colored quartz ; and other fine materials. 7 pieces.
 2⁵/₈ 343 Arrow Points of irregular and remarkable form. 4 pcs.
 9 344 Arrow Points ; selected for variety ; fine lot. 25 pieces.
 6 345 Arrow Points ; a similar selection ; fine. 25 pieces.
 7 346 Arrow Points ; another selection ; same quality. 48 pieces.

The six lots following are from the same locality as the arrow heads just described, and are characterized by the same fine workmanship and beautiful material.

- 347 Scrapers; red jasper; fine, *rare*. 5 pieces.
- 348 Scrapers; yellow jasper; fine. 5 pieces.
- 349 Scrapers; chalcedony; all fine. 5 pieces.
- 350 Scrapers; black material resembling obsidian; fine. 4 pieces.
- 351 Scrapers; variety; all fine. 6 pieces.
- 352 Scrapers; similar lot. 7 pieces.
- 353 Small obsidian Knives, Mexico. 3 pieces.
- 354 Obsidian Core from which knives have been flaked, Mexico. $2\frac{1}{2}$ in.
- 355 Stemmed Arrow Points, Santa Barbara, California; fine; length, $2\frac{1}{2}$ in.
- 356 Broad stemmed Arrow Point, Santa Barbara, California. Length $2\frac{1}{4}$ in.
- 357 Leaf-shaped Arrow Point, Santa Barbara, Cal. $2\frac{1}{2}$ in.
- 358 Triangular, stemmed Arrow Point, Santa Barbara, Cal.; chalcedony; very fine. $1\frac{3}{4}$ in.
- 359 Arrow Points, selected, Santa Barbara, Cal. 6 pieces.
- 360 Leaf shape Arrow Head, Los Alamos, Cal. 3 in.
- 361 Barbed Arrow Point; *rare form*; Los Alamos, Cal. $2\frac{1}{4}$ in.
- 362 Arrow Point; leaf form; same place. $2\frac{1}{4}$ in.
- 363 Arrow Point; leaf shape, serrated; same. $1\frac{1}{2}$ in.
- 364 Arrow Point; barbed, fine; same. $2\frac{1}{4}$ in.
- 365 Arrow Points; same location; fine selection. 6 pieces.

THE STONE AGE IN EUROPE.

It will be noticed that nearly all the following objects are from Denmark, and that most of them are of true flint, a substance which it is said does not occur in this country. Flint presents such a diversity and richness of color that many of the objects are very beautiful, unequalled by similar implements found in America. The remark of a recent writer concerning the Danish collection in the Peabody Museum at Cambridge, applies with equal force to this choice little selection:

“This collection derives special value from the fact that the Danish government now reserves for its own Museums the results of explorations carried on in its territory.”

CELTS, GOUGES AND NARROW CHISELS.

The objects here mentioned as Celts, are by European archaeologists commonly denominated wedges, and the gouges are usually referred to as hollow chisels.

It is proper to state that the term chipped, as applied to implements of flint, does not indicate a defect, but simply a manner of working, and is equivalent to flaked, as distinguished from polished or pecked.

- 6.50 366 Celt; edge broad, narrowing towards the head; convex, with square sides flaked; very fine, and of uncommon size; weighs nearly 4 lbs. $11 \times 3\frac{1}{4}$ in.
- 2.00 367 Polished Celt, with edge newly chipped, narrowing towards the head; Biborg, Jutland. $7 \times 2\frac{3}{4}$ in.
- 2.50 368 Celt; chipped flint, edge at both ends; Jutland; very fine. $8\frac{1}{4} \times 3$ in.
- 1.75 369 Thin, flint Celt; flats polished, sides chipped; a beautiful implement; Voldtofte, Funen. $5\frac{1}{2} \times 2\frac{1}{4}$ in.
- 1.50 370 Celt; flint, chipped, flats partially polished; Skean, Sweden; very fine. $5\frac{1}{2} \times 2$ in.
- 75 371 Rude, chipped Celt, showing the rind of the stone; contains a natural perforation 1 in. in depth; found at the water-side on the little island of Hasselo; *rare*. $5\frac{1}{4} \times 2\frac{1}{2}$ in.
- 2.00 372 Flint Celt; polished on all sides, patinated; very fine, and *rare*; Denmark. 6×3 in.
- 1.00 373 Celt; flats polished, edges chipped, square head; Denmark; very fine. $5\frac{3}{4} \times 2$ in.
- 1.50 374 Celt; chipped edges, polished flats, square head, edges expanding; very fine; Denmark. $5\frac{3}{4} \times 2\frac{1}{4}$ in.
- 1.87 375 Flint Celt; chipped, with beveled edges, plowed up at Sarslev, Funen; fine and a *rare* form. $5\frac{1}{2} \times 2\frac{1}{2}$ in.
- 10.00 376 Flint Celt; flats and edges finely polished, two or three little nicks in the edge, but a beautiful implement and one of the largest size; Denmark; $12\frac{1}{2} \times 3\frac{1}{4}$ in.
- 2.12 377 Narrow, chipped Celt, with square head, sides nearly parallel, from Lillerod, Sealand; very fine. 8×2 in.
- 1.63 378 Similar chipped Celt, but with expanding edge, Roeskilde, Sealand; very fine. $6\frac{1}{2} \times 2\frac{1}{2}$ in.
- 2.00 379 Celt; flats chipped and polished edges chipped, square head, Nestved Sealand; very fine. $6\frac{1}{2} \times 2$ in.
- 1.75 380 Celt; chipped, Sarslev, Funen; fine. $5\frac{3}{4} \times 2\frac{1}{4}$ in.
- 2.70 381 Celt; chipped, with square head and expanding edge, Roeskilde, Sealand; very fine. $7 \times 2\frac{3}{4}$ in.

- 382 Polished Celt, with square head and expanding edge ;
very fine ; Denmark. $4\frac{3}{4} \times 2\frac{1}{4}$ in.
- 383 Celt, with polished flats and chipped edges, point
newly chipped, square head ; very fine ; Denmark.
 $4\frac{1}{4} \times 1\frac{3}{4}$ in.
- 384 Thin polished Celt ; sharp at both ends ; very fine ; from
Kjoge, Sealand. $4 \times 1\frac{3}{4}$ in.
- 385 Polished Celt of yellow flint ; Denmark ; very fine. $5\frac{1}{2}$
 $\times 3$ in.
- 386 Polished Gouge, Denmark ; very fine ; $4\frac{3}{4} \times 1\frac{7}{8}$ in.
- 387 Chipped Gouge ; square head and expanding edge ;
Fredericksborg, Sealand ; very fine ; $4\frac{3}{4} \times 2\frac{1}{4}$ in.
- 388 Polished Gouge with new chipped edge ; square head ;
Denmark ; $4\frac{3}{4} \times 2\frac{1}{4}$ in.
- 389 Polished Gouge ; square head, expanding edge ; Den-
mark ; $4\frac{3}{4} \times 2$ in.
- 390 Chipped Celt with square head and broad edge ; Jutland ;
very fine ; $6\frac{1}{4} \times 2\frac{1}{4}$ in.
- 391 Celt of dark flint ; chipped top, nearly sharp ; sides
nearly parallel ; Denmark ; very fine ; $9\frac{1}{4} \times 2\frac{3}{4}$ in.
- 392 Chipped Celt with sloped head ; Vaby, Copenhagen ;
very fine ; $8\frac{1}{4} \times 3$ in.
- 393 Polished and chipped Celt ; top with edge ; Denmark ;
fine ; $5 \times 2\frac{1}{4}$ in.
- 394 Chipped Celt, broad, square head ; Assens, Funen ; fine.
 $8 \times 3\frac{1}{4}$ in.
- 395 Chipped Gouge ; edge broad, narrowing towards the
head which is nearly square ; Funen ; very fine ; $6\frac{1}{4}$
 $\times 2\frac{1}{4}$ in.
- 396 Chipped Gouge ; top square, nearly pointed ; Sweden ;
very fine ; $6\frac{1}{2} \times 2\frac{1}{4}$ in.
- 397 Polished Gouge ; Nykjobing Island, Falster : very fine ;
 $6\frac{1}{2} \times 2\frac{1}{4}$ in.
- 398 Celt or Gouge : rudely blocked out, showing one stage
of the work ; Funen ; an interesting object. $5\frac{3}{4} \times 2\frac{1}{4}$ in.
- 399 Gouge ; in rough stage like the last, square head, ex-
panded edge ; Denmark. $3\frac{3}{4} \times 2\frac{1}{2}$ in.
- 400 Celt ; polished flats, chipped edges, square head ; Island
of Moen ; fine. $4\frac{3}{4} \times 2\frac{1}{4}$ in.
- 401 Polished Celt ; with newly chipped edge ; head thin.
Nestved, Sealand ; fine. $5\frac{1}{2} \times 2\frac{1}{2}$ in.
- 402 Polished Celt ; with polished sides, uncommon form.
Faxø, Sealand ; very fine. $5 \times 1\frac{3}{4}$ in.

- 7²⁵403 Thin Celt; flats polished, edges chipped, head quadrangular; Nyborg, Funen; very fine. 6 x 2 in.
- 1⁵⁵404 Polished Celt; sides chipped, square head; Sealand; fine. $4\frac{1}{2}$ x 2 in.
- 1⁷⁵405 Celt; one flat and one edge polished, the others chipped; Funen; very fine. $4\frac{3}{4}$ x 2 in.
- 7²⁰406 Celt; flats polished, edges chipped, nearly triangular; with square head; Farum, Sealand; very fine. $3\frac{3}{4}$ x 2 in.
- 1⁰⁰407 Polished Gouge; with new chipped edge; Funen; fine. 4 x 2 in.
- 1⁰⁰408 Celt; flats polished, edges chipped, head nearly pointed; Denmark. $4\frac{1}{2}$ x $1\frac{7}{8}$ in.
- 1⁶³409 Celt; chipped, with flats partially polished, head nearly square, and edges parallel for nearly half the length; *rare form*; from Slagelse, Sealand. 5 x 2 in.
- 1⁰⁰410 Gouge; one flat polished, the remainder chipped, with new chipped edge; head quadrangular; Denmark; fine. $4\frac{1}{2}$ x $2\frac{1}{4}$ in.
- 1⁰⁰411 Narrow Chisel; flats polished, edges chipped, top narrow; Funen; fine. $3\frac{1}{2}$ x $1\frac{1}{4}$ in.
- 1¹²412 Celt; chipped, expanding edge, quadrangular head; Denmark; very fine. $5\frac{1}{4}$ x $2\frac{1}{4}$ in.
- 5⁸413 Narrow Chisel; square head, chipped on all sides, edge polished; Denmark. $3\frac{1}{2}$ x $\frac{3}{4}$ in.
- 1⁶²414 Narrow Square Chisel; polished on all sides; Skive, Jutland; very fine. $4\frac{1}{2}$ x $\frac{3}{4}$ in.
- 1⁶³415 Square Chisel; chipped, head contracted; Thisted, Jutland; fine. $4\frac{1}{4}$ x $\frac{3}{4}$ in.
- 7¹³416 Square Chisel; polished on all sides, head square, edge narrowed by chipping; Borup, Sealand. $3\frac{1}{4}$ x $\frac{5}{8}$ in.
- 1⁶²417 Narrow Square Chisel; polished on all sides, head narrowed; Denmark; very fine. 5 x $\frac{7}{8}$ in.
- 7⁶²418 Narrow Chisel; polished on four sides; Hinnerup, Denmark; very fine. $3\frac{3}{4}$ x $\frac{3}{4}$ in.
- 7⁷⁵419 Square Narrow Chisel; all sides polished; Denmark; very fine. $6\frac{1}{2}$ x 1 in.
- 7²⁵420 Square Polished Chisel; narrowing towards each end; Island Oro, Denmark; fine. $5\frac{1}{4}$ x $1\frac{1}{8}$ in.
- 1⁶⁰421 Square Chisel: blocked out, but unfinished: Denmark. $5\frac{1}{4}$ x $1\frac{1}{4}$ in.

DAGGERS, KNIVES, AND SPEAR HEADS.

All these objects are of flint, beautifully chipped.

- 422 Dagger; broad, serrated blade, handle thick, with projection at the end; Denmark; very fine, *rare*. $7\frac{1}{2} \times 1\frac{3}{4}$ in.
- 423 Dagger; slightly curved, same form as the last, with shorter handle; Denmark; very fine. $6 \times 1\frac{3}{4}$ in.
- 424 Dagger, or Spear Point; narrower and with shorter handle; Denmark; very fine. $6\frac{1}{4} \times 1\frac{1}{4}$ in.
- 425 Dagger; handle flattened, without projection at the end; blade narrow; $7 \times 1\frac{1}{2}$ in.
- 426 Small Dagger or Lance; head of dagger form; $5 \times 1\frac{1}{8}$ in.
- 427 Spear Head; blade flattened; base nearly square; Denmark; fine; *rare*; $6\frac{1}{2} \times 1\frac{1}{4}$ in.
- 428 Spear Head; Denmark; a beautiful implement; $9\frac{3}{4} \times 1\frac{3}{8}$ in.
- 429 Elliptical Knife; Denmark; very fine; $5\frac{3}{4} \times 1\frac{1}{2}$ in.
- 430 Narrow Spear Head; Denmark; very fine; $6\frac{1}{4} \times 1$ in.
- 431 Dagger; Denmark; of finest workmanship; symmetrical and beautiful; one of gems of the collection; $8\frac{1}{4} \times 1\frac{3}{4}$ in.
- 432 Lance Head; elliptical, base rounded; Denmark; very fine; $5\frac{1}{2} \times 1\frac{1}{4}$ in.
- 433 Lance Head; Svinninge, Sealand; very fine; $7 \times 1\frac{1}{4}$ in.
- 434 Lance Head; Denmark; very fine; $5\frac{3}{4} \times 1\frac{3}{8}$ in.
- 435 Semi-Lunar (half-moon shape) Saw or Knife; adapted to be used as both, the convex edge being keen, and the concave edge toothed like a saw; Denmark; an elegant implement; $6\frac{1}{4} \times 1\frac{1}{4}$ in.
- 436 Elliptical Knife-Saw; this implement approaches the ordinary half-moon form, but both edges are convex; very fine and *rare*; $6\frac{1}{2} \times 1\frac{5}{8}$ in.
- 437 Semi-Lunar Knife-Saw; one edge sharp, the other dentated; Denmark; very fine; $6\frac{5}{8} \times 1\frac{1}{4}$ in.
- 438 Semi-Lunar Knife, Denmark; very fine; $4\frac{3}{4} \times 1\frac{1}{4}$ in.
- 439 Semi-Lunar Knife, Randers, Jutland; very fine; $3\frac{3}{4} \times 1\frac{1}{2}$ in.
- 440 Semi-Lunar Knife, Denmark; very fine; $4 \times 1\frac{1}{4}$ in.
- 441 Semi-Lunar Knife, Denmark; fine; $4 \times 1\frac{1}{8}$ in.
- 442 Flint Knife or Flake, Denmark; $4\frac{1}{2} \times \frac{7}{8}$ in.
- 443 Flint Flaked Knife, Denmark; of light stone; very fine; $4\frac{1}{4} \times 1\frac{1}{4}$ in.
- 444 Flaked Knife, Denmark; curved; very fine; $6 \times \frac{3}{4}$ in.

- 1⁵ 445 Flaked Knife, Denmark; curved; symmetrical; fine; $5\frac{1}{4} \times 1$ in.
- 2⁵ 446 Flint Knife, Denmark; fine; $3\frac{1}{4} \times \frac{3}{4}$ in.
- 5⁰ 447 Flint Knife, Skive, Jutland; very fine; $4\frac{1}{2} \times \frac{7}{8}$ in.
- 7⁵ 448 Flint Knife; described in the Danish invoice as a flint chipping; chipped along the sides; Varpelev, Denmark; fine; *rare form*; $4\frac{1}{2} \times \frac{1}{2}$ in.
- 15⁰ 449 Flint Core showing the stone from which knives have been flaked, Denmark; fine example; $5\frac{1}{4} \times 2$ in.
- 8⁰ 450 Flint Core; similar to the last; has been flaked all round; $3\frac{1}{2} \times 1\frac{1}{4}$ in.
- 55⁰ 451 Arrow Point; triangular, with stem; closely resembling in form a three-cornered file; two of the corners serrated, the other a sharp edge; Denmark; very fine; $4 \times \frac{7}{16}$ in.

Among the Stone relics found on this continent, Arrow Points are far more numerous than all the other objects combined, but so far as my limited observation extends, it seems that they are among the rarest of the Seandnavian flint implements. In a collection now belonging to me, and numbering more than a thousand specimens, not above ten or twelve arrow points are found; each one was catalogued in the original Danish invoice with most particular care, and illustrated with a drawing.

- 55⁰ 452 Arrow Point, file shaped; two edges finely serrated; Denmark; as fine as the last; $4 \times \frac{1}{2}$ in.
- 5² 453 File-shaped Arrow Point, stemmed; the three corners serrated; Denmark; very fine and rare; $2\frac{1}{2} \times \frac{3}{8}$ in.
- 3⁷ 454 Arrow Point; triangular; file-shape, flattened, with stem; sharp edges, not serrated; $3\frac{1}{2} \times \frac{5}{8}$ in.
- 35⁰ 455 Great Arrow Head; flat; elliptical; Roeskilde, Sealand; fine, rare; $3\frac{3}{4} \times \frac{7}{8}$ in.

PERFORATED AXES AND HAMMERS.

We have here a form of implement peculiar to the Eastern Continent, nothing of the sort being found in America; the nearest approach in form being some of the varieties of Banner Stones. At a glance it seems apparent that many of these objects were intended for hammers, but a more careful examination discloses the fact that some of them of a form best adapted to such use, show not the slightest marks of wear.

- 85⁰ 456 Perforated Battle Axe; granite; Denmark; beautiful, and perfectly symmetrical; weight, $3\frac{1}{2}$ lbs; $7\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ in.

- 10.457 Axe-Hammer; curved; perforation near the centre; of very graceful form, and perfect; Denmark; $7 \times 2\frac{1}{2} \times 1\frac{3}{8}$ in.
- 9.458 Battle Axe; basalt; water worn, and showing marks of high antiquity; perforation near the head; Viborg, Jutland; $7\frac{1}{2} \times 2\frac{7}{8} \times 2\frac{1}{4}$ in.
- 10.459 Hammer-Axe; small; $\frac{3}{4}$ in. perforation near the middle; somewhat curved head; contracted and rounded edge, sloping inward; polished and perfect; Denmark; $5\frac{1}{4} \times 1\frac{3}{4} \times 1\frac{3}{4}$ in.
- 5.460 Battle Axe; coarse granite; the perforation starting from both sides extends through. Interesting, as showing the manner of piercing, which was evidently done with a stone perforator and not by a revolving reed; surface disintegrated; very ancient, Skive; Jutland; $5\frac{1}{4} \times 2\frac{1}{2} \times 1\frac{3}{4}$ in.
- 7.461 Small Hammer-Axe; like the last, pierced from each side and like that, showing marks of great age; Slangerup, Sealand; $3\frac{1}{2} \times 1\frac{3}{4} \times 1$ in.
- 1.462 Hammer-Axe; broken at the perforation, with new perforation commenced; Slangerup, Sealand; $4 \times 2 \times 1\frac{3}{4}$ in.
- 1.463 Hammer-Axe; broken at the perforation and new hole commenced on each side; originally very fine; and now interesting as showing its secondary use; $3\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{4}$ in.
- 15.464 Battle-Axe; broken at the hole and newly perforated; Denmark; fine; $3\frac{1}{2} \times 2\frac{3}{4} \times 2$ in.
- 3.465 Battle-Axe of large size; large perforation commenced and extending about one-third through, narrowing towards the bottom; $8\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ in.
- 10.466 Battle-Axe of very peculiar shape; a cross section would show a rhomboidal form with perforation parallel to the edges and oblique to the head; a singular variation from the regular pattern; Denmark; fine; $7 \times 2\frac{3}{8} \times 2$ in.
- 9.467 Battle-Axe; perforation very near the head; dark granite; Rudkjobling Island, Langeland; fine; $4\frac{1}{2} \times 2 \times 2$ in.
- 5.468 Battle-Axe; flattened towards the head, expanding towards the edge, Denmark; $4\frac{3}{4} \times 2\frac{1}{2} \times 2$ in.
- 3.469 Hammer-Axe; head a little broken, the middle widely expanding, contracting towards the head and edge; Odder, Jutland; $4\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ in.
- 4.470 Battle Axe; Denmark; polished; very fine; $4\frac{1}{4} \times 2 \times 2$ in.

- ^{10.50} 471 Curved Axe with edge at both ends; Denmark: very fine and perfect; $5\frac{1}{2} \times 1\frac{7}{8} \times 1\frac{1}{4}$ in.
- ^{11.50} 472 Perforated Hammer of fine granite; Denmark: $4\frac{1}{2} \times 2\frac{1}{4} \times 1\frac{1}{2}$ in.
- ^{10.50} 473 Perforated Axe-Hammer; fine grained, light granite; Denmark; of graceful form and a handsome implement; $4\frac{1}{4} \times 1\frac{1}{2} \times 1\frac{3}{8}$ in.
- ^{11.00} 474 Perforated Axe-Hammer; the perforation of this object commenced on both sides shows that the hole was made with a round pointed implement with parallel sides; that though the hole was usually commenced from each side and was carried forward till the perforations met it was not enlarged from the middle ridge, but was carried through full sized from one side to the other; in some of these objects the striae caused by the rough edges of the revolving drill are very prominent, while in others, the opening is as smooth and perfect as could be produced by any mechanical means; Denmark; $3\frac{7}{8} \times 1\frac{3}{4} \times 1\frac{1}{2}$ in.
- ^{11.50} 475 Double-edged Axe; expanded in the middle and towards one edge; Denmark; very fine; $5 \times 2\frac{1}{8} \times 1\frac{3}{4}$ in.

THE MOUND BUILDERS.

POTTERY, PIPES, ETC.

All these objects came from different Illinois and Missouri mounds.

- ^{3.60} 476 Large, long-neck bottle; little nicked at the top of the neck; Missouri; very fine; height 7 in., diameter 6 in.
- ^{9.00} 477 Animal head bottle; Missouri; perfect and *very rare*: height 6 in., diameter 5 in.
- ^{7.50} 478 Urn; edge of the neck a little chipped and slight perforation near the bottom; a very fine and desirable piece; height 6 in., diameter $6\frac{1}{2}$ in.
- ^{3.25} 479 Bottle, of unusual form, having five regular projections encircling it, ornamented with five curved lines; the top of neck cut off square; height 6 in., diameter 6 in.
- ^{7.00} 479a Bowl with four projecting bosses; the top considerably ornamented; cracked, and two little notches on the top; otherwise fine; height 3 in., diameter $5\frac{1}{2}$ in.
- ^{3.50} 479b Bowl with flaring rim, and ears for suspension; very fine; height $3\frac{1}{2}$ in., diameter $5\frac{1}{2}$ in.

- 479c Small Bottle ; neck cut square ; pin hole near the bottom ; of remarkably fine material and workmanship ; hard baked, with surface which seems to be glazed ; height $4\frac{1}{2}$ in., diameter $3\frac{1}{2}$ in.
- 480 Small skillet-shaped vessel with handle at one side ; height $2\frac{1}{4}$ in., diameter and length of handle 3 in.
- 481 Large Bowl ; broken and mended ; height 3 in., diameter $7\frac{1}{2}$ in.
- 482 Bird's Head ; once formed the handle of a mound vessel ; fine.
- 483 Large Pipe of stone ; both the bowl and the portion for the insertion of the stem, nearly square and of equal size ; height and length about 3 in. each.

I have somewhere seen it stated that the Mound Builder smoked his pipe without the intervention of a stem ; it is true that the monitor-shaped mound builder's pipe, with a flat mouth piece, might have been so used, but many pipes of diverse forms which could only be used with a stem, have been dug from mounds, the one here described being a fine example.

- 484 Double pipe ; concerning this article I am uncertain whether it is stone or pottery, and I am more in doubt as to what the object was intended for ; it has two openings like pipe bowls, each pierced with two holes in which stems might be inserted, and the outside is covered with numerous depressions which doubtless were intended to be ornamental ; length $3\frac{1}{4}$ in., breadth $2\frac{1}{4}$ in., height 2 in.
- 485 Pipe ; monitor pattern ; stem broken ; otherwise fine ; length 3 in., height $1\frac{1}{2}$ in.
- 486 Spade ; light, colored chert from a mound in Illinois ; portions polished from long-continued use ; the edge newly chipped ; fine, and of this size *very rare* ; length $11\frac{1}{2}$ in., width $4\frac{3}{4}$ in., thickness $1\frac{1}{4}$ in.
- 487 Spade ; material like the last, but of smaller size and very symmetrical in form ; from an Illinois mound ; $8\frac{1}{2} \times 3\frac{1}{2} \times \frac{7}{8}$ in.
- 488 Ivory bead ; five inches in length ; taken from a mound in Kansas ; this remarkable object is one of seventeen found together : it is symmetrical as though turned in a lathe ; its diameter in the middle is $\frac{3}{8}$ of an inch, at the ends $\frac{3}{16}$ of an inch and the perforation about $\frac{1}{16}$ of an inch. How a hole so long and so small could be bored in a substance so hard as ivory, is an interesting question.
- 489 Mound Builders' Ear Ornament ; a pendant perforated at the top ; from Missouri ; *very rare*.

PRE-GLACIAL MAN IN NEW JERSEY.

The similarity of some of the following implements, more especially the first seven lots, to the objects discovered by Dr. Abbott in place, in the gravel of New Jersey, on which he bases his theory of the existence of Pre-Glacial man in that state, leads me to think that they are of the same origin, but failing in my efforts to obtain definite information on the subject, the matter remains in doubt.

- 3 490 Knife or Axe ; nearly circular ; diameter $4\frac{1}{4}$ in.
- 25 491 Knife ; $5\frac{1}{2}$ x 3 in.
- 16 492 Knife ; 6 x 3 in.
- 25 493 Knife or Axe ; 6 x $4\frac{1}{2}$ in.
- 25 494 Long Knife, approaching Celt form ; from Spotswood :
6 x 3 inches.
- 36 495 Knife or Axe ; narrowing towards one end ; $5\frac{1}{2}$ x $3\frac{1}{2}$ in.
- 26 496 Knife ; Morrisville ; $5\frac{1}{2}$ x 4 in.
- 2 497 Rude objects resembling the preceding ; variety in form
and size. 8 pieces.
- 25 498 Celt ; Spotswood ; $5\frac{1}{2}$ x 2 in.

COINS.

- 65 499 1773 Virginia Half-Penny ; bright ; unc., scarce.
- 23.00 500 1794 Dollar ; obv., head, good ; stars facing, all distinct,
those at the back of the head all visible ; date faint
but distinct ; rev., eagle and wreath, good, legend at
the left weakly struck and some letters not visible :
at the right stronger impression ; pierced over the
head ; the hole can be easily filled and with this im-
provement the dollar would be a very satisfactory
specimen : *extremely rare*.
- 136 501 1794 Half Dollar ; fair, with the exception of the date
which is faint, but still visible.
- 70 502 1794 Half Cent ; good, scarce.
- 150 503 1795 Half Dollar ; nearly fine.
- 45 504 1795 Cent ; thin planchet ; very good.
- 30 505 1795 Half Cent ; thin planchet ; good.
- 30 506 1796 Cent ; Liberty cap ; barely fair ; scarce.
- 50 507 1796 Cent ; flowing hair ; very good ; scarce.
- 17 508 1797 Cent ; fair.

- 509 1798 Dollar ; small eagle ; rev., 15 stars ; very fine and *extremely rare*.
- 510 1798 Dollar ; 13 stars ; very good ; nearly fine ; *as rare as the last*.
- 511 1798 Cent ; good.
- 512 1799 Cent ; this coin was purchased as an original at a very large price ; it is so perfect that it seems impossible that it is an alteration, but it is pronounced such by the best authority : in very fine, slightly circulated, condition.
- 513 1800 Cent ; good.
- 514 1800 Half Dime ; somewhat bruised, otherwise good ; *rare*.
- 515 1802 Cent ; fine.
- 516 1802 Half Cent ; very good : *rare*.
- 517 1803 Cent ; nearly fine.
- 518 1805 Cent ; very good.
- 519 1807 Cent ; very good.
- 520 1808 Cent ; only fair.
- 521 1811 Cent ; fine ; dark color.
- 522 1812 Cent ; good.
- 523 1814 Cent ; good ; nearly fine.
- 524 1815 Half Dollar ; fine and *very rare*.
- 525 1816 Cent ; bright ; uncirculated.
- 526 1817 Cent ; same quality.
- 527 1818 Cent ; bright ; uncirculated.
- 528 1819 Cent ; bright ; uncirculated.
- 529 1820 Cent ; perfectly uncirculated.
- 530 1821 Cent ; very good ; almost fine, scarce.
- 531 1822 Cent ; fine, scarce.
- 532 1823 Cent ; good, scarce.
- 533 1826 Cent ; fine.
- 534 1831 Cent ; uncirculated or nearly so ; scarce.
- 535 1837 Cent ; equally fine.
- 536 1839 Cent ; head of '38 ; fine.
- 537 1839 Cent ; silly head ; very fine.
- 538 1843 Cent ; very fine ; ~~uncirculated~~.
- 539 1846 Dime ; good ; nearly fine ; *rare*.
- 540 1846 Half Dime ; very good ; *rare*.
- 541 1851 Half Dollar ; fine ; very scarce.
- 542 1852 Half Dollar ; Phil. mint ; very fine and *very rare*.

- 21 543 1852 Cent; bright; uncirculated.
 21 544 1853 Cent; bright; uncirculated.
 24 545 1854 Cent; bright; uncirculated.
 21 546 1856 Cent; uncirculated.
 270 547 1856 Nickel Cent; very good; almost fine; rare.
 20 548 1857 Copper Cent; small date; very good, scarce.
 455 549 1861 Confederate Half Dollar; fine; *very rare*.
 10 550 1867 Five Cent Piece; nickel, with rays; good; very scarce.
 96 551 1869 Three Cent Piece; proof; *rare*.
 60 552 1870 Three Cent Piece; proof; *rare*.
 10 553 1876 Bronze Cent; splendid proof.
 1505 554 1879 Metric-Goloid-Stella—Pattern set, comprising Metric Dollar, Goloid Dollar, and Goloid Stella, or Four dollar piece; *brilliant proofs; rare*.

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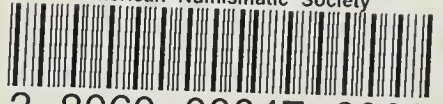
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